Title (en)

Honeycomb catalyst and exhaust gas purifying apparatus

Title (de)

Wabenkatalysator und Abgasreinigungsvorrichtung

Title (fr)

Catalyseur en nid d'abeille et appareil de purification de gaz d'échappement

Publication

EP 2845648 A3 20150325 (EN)

Application

EP 14181754 A 20140821

Priority

JP 2013175928 A 20130827

Abstract (en)

[origin: EP2845648A2] The present invention provides a honeycomb catalyst that is excellent in NOx purifying performance and is capable of suppressing damage of a honeycomb unit during use of an exhaust gas purifying apparatus. The honeycomb catalyst of the present invention includes a honeycomb unit with a plurality of through holes that are arranged in parallel in a longitudinal direction and partitions that are provided between the through holes, wherein the honeycomb unit includes a zeolite and an inorganic binder; the zeolite is a CHA-structured aluminosilicate having a Si/Al ratio of 15 to 50; and the partitions have pores having an average pore size of 0.05 to 0.2 μm.

IPC 8 full level

B01J 29/76 (2006.01); **B01D 53/94** (2006.01); **B01J 29/70** (2006.01); **B01J 35/04** (2006.01); **B01J 35/10** (2006.01); **B01J 37/00** (2006.01); **C04B 38/00** (2006.01); B01J 29/00 (2006.01); B01J 37/34 (2006.01); C04B 111/00 (2006.01)

CPC (source: EP US)

B01D 53/9418 (2013.01 - EP US); **B01J 29/7015** (2013.01 - EP US); **B01J 29/763** (2013.01 - EP US); **B01J 35/56** (2024.01 - EP US); **B01J 35/651** (2024.01 - EP US); **B01J 35/66** (2024.01 - EP US); **B01J 37/0018** (2013.01 - EP US); **C04B 35/18** (2013.01 - EP US); **C04B 38/0006** (2013.01 - EP US); B01D 2251/2062 (2013.01 - EP US); B01D 2253/1085 (2013.01 - EP US); B01D 2255/20761 (2013.01 - EP US); B01D 2255/50 (2013.01 - EP US); B01D 2255/9155 (2013.01 - EP US); B01D 2255/9202 (2013.01 - EP US); B01D 2255/9205 (2013.01 - EP US); B01J 29/005 (2013.01 - EP US); B01J 35/69 (2024.01 - EP US); B01J 37/346 (2013.01 - EP US); B01J 2229/186 (2013.01 - EP US); B01J 2229/42 (2013.01 - EP US); C04B 2111/00793 (2013.01 - EP US); C04B 2111/0081 (2013.01 - EP US); C04B 2235/3217 (2013.01 - EP US); C04B 2235/3218 (2013.01 - EP US); C04B 2235/3232 (2013.01 - EP US); C04B 2235/3244 (2013.01 - EP US); C04B 2235/3472 (2013.01 - EP US); C04B 2235/3481 (2013.01 - EP US); C04B 2235/5216 (2013.01 - EP US); C04B 2235/526 (2013.01 - EP US); C04B 2235/5264 (2013.01 - EP US); C04B 2235/5436 (2013.01 - EP US); C04B 2235/5445 (2013.01 - EP US); C04B 2235/6021 (2013.01 - EP US); C04B 2235/606 (2013.01 - EP US)

C-Set (source: EP US)

C04B 38/0006 + **C04B 35/00** + **C04B 38/0054**

Citation (search report)

- [Y] US 2010092362 A1 20100415 - LI HONG-XIN [US], et al
- [YD] US 2009285737 A1 20091119 - BULL IVOR [DE], et al
- [Y] US 2012301381 A1 20121129 - FEDEYKO JOSEPH MICHAEL [US], et al
- [Y] EP 2399670 A1 20111228 - NGK INSULATORS LTD [JP]
- [Y] US 2009291839 A1 20091126 - KUNIEDA MASAFUMI [JP], et al
- [YD] US 2011116989 A1 20110519 - MATSUKAWA YOSUKE [JP], et al

Cited by

CN109562363A; CN106450393A; CN108883997A; US11192066B2; WO2017216012A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2845648 A2 20150311; **EP 2845648 A3 20150325**; JP 2015044146 A 20150312; JP 6204751 B2 20170927; US 2015065337 A1 20150305

DOCDB simple family (application)

EP 14181754 A 20140821; JP 2013175928 A 20130827; US 201414469588 A 20140827